

ABSTRACT OF THE DISCLOSURE

A constant current supply circuit generates a constant current according to a control voltage. A data read current passing through a tunneling magneto-resistance element constituting a memory cell during
5 data write is set according to the constant current. Constant current supply circuit includes a voltage adjustment circuit generating a reference voltage adjustable according to an external input, a current source generating the constant current according to the reference voltage, and a voltage switch circuit transmitting the reference voltage to the current
10 source as a control voltage during a normal operation.